

**Program Listing for
Sierra Madre**

Date Printed
August 30, 2000



Diversion Program Name

*Prior to SRRE	SRRE Selected	1997 Status	1998 Status
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Source Reduction

Xeriscaping/Grasscycling	No	Yes		
Backyard and On-Site Composting/Mulching	No	Yes	X	X
Procurement	No	Yes	X	X
Material Exchange, Thrift Shops	Yes	Yes	X	X

Recycling

Residential Curbside	Yes	Yes	X	X
Residential Drop-Off	Yes	Yes	X	X
Residential Buy-Back	Yes	Yes	X	X
Commercial On-Site Pickup	Yes	Yes	X	X
School Recycling Programs	No	Yes	X	X
Special Collection Seasonal (regular)	No	Yes	X	X

Composting

Residential Curbside Greenwaste Collection	No	Yes	X	X
Residential Self-haul Greenwaste	No	Yes	X	X

Special Waste Materials

Tires	Yes	Yes	X	X
White Goods	Yes	Yes	X	X
Scrap Metal	Yes	Yes	X	X
Wood Waste	No	Yes	X	X
Concrete/Asphalt/Rubble	No	No		X

X = indicates programs being implemented

Any blank status code above could be one or more of the following:

- Dropped
- Selected and Not Implemented
- Planned Future

* Existing prior to SRRE (Source Reduction
Recycling Element)



Program Listing for Sierra Madre

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Diversion Program Name	*Prior to SRRE	SRRE Selected	1997 Status	1998 Status
Public Education				
Electronic (radio ,TV, web, hotlines)	No	Yes	X	X
Print (brochures, flyers, guides, news articles)	Yes	Yes	X	X
Outreach (tech assistance, presentations, awards, fairs, field trips)	No	Yes	X	X
Schools (education and curriculum)	No	Yes		X
Policy Incentives				
Economic Incentives	Yes	Yes	X	X
Ordinances	No	Yes		
Facility Recovery				
Alternative Daily Cover	No	Yes	X	X

X = indicates programs being implemented

Any blank status code above could be one or more of the following:

- Dropped
- Selected and Not Implemented
- Planned Future

* Existing prior to SRRE (Source Reduction
Recycling Element)



Jurisdictional SRRE Program Summary
Household Hazardous Waste (HHW)
Selected Year(s): 1997, 1998

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Jurisdiction	Year	HH- PMF	HH- MPC	HH- CSC	HH- WSE	HH- EDP	HH- OTH
Sierra Madre	1997	X	X		X		
	1998					X	

Legend: HH-PMF Permanent Facility
HH-MPC Mobile or Periodic Collection
HH-CSC Curbside Collection
HH-WSE Waste Exchange
HH-EDP Education Programs
HH-OTH Other HHW



City of Sierra Madre

232 WEST SIERRA MADRE BOULEVARD
SIERRA MADRE, CALIFORNIA 91024

(626) 355-7135

Transmittal Form

Date 16 AUGUST 1999

TO: _____

COMPANY: CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD

DIVISION: OFFICE OF LOCAL ASSISTANCE MS 8

ADDRESS: 8800 CAL CENTER DRIVE SUITE: _____

CITY: SACRAMENTO STATE: CA

ZIP: 95826

VIA: MAIL ☒ FACSIMILE _____ UPS _____ MESSENGER _____

OVERNIGHT _____

ITEMS ATTACHED:

BASE YEAR MODIFICATION REQUEST CERTIFICATION

FAX: _____ PHONE: _____ # of pages, incl. Trans. _____

NOTES: _____

FROM: Bruce Inman

BRUCE INMAN, DIRECTOR OF PUBLIC WORKS

request a correction to or substitution for a previously approved base-year amount used in calculating the diversion rate for your jurisdiction, please complete and sign this form and return it to your Office of Local Assistance (OLA) representative at the address below, along with any additional information requested by OLA staff. When all documentation has been received, your OLA representative will work with you to prepare for your appearance before the Board. If you have any questions about this process, please call (916) 255-2555 to be connected to your OLA representative.

Mail completed documents to:

California Integrated Waste Management Board
Office of Local Assistance, MS 8
8800 Cal Center Drive
Sacramento CA 95826

General Instructions:

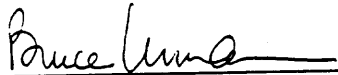
Please select the **ONE** choice below that best explains your request to the Board, and complete the appropriate sections. **All respondents must complete Section I** and either Section II A or II B, as noted.

- ☐ 1. Correct our existing Board-approved base-year generation (disposal or diversion) tonnage. (Please complete Section I and Section II A.)
- ☐ 2. Use a recent generation-based study to substitute for our existing Board-approved base-year generation amount, but not officially change our existing Board-approved base year. (Please complete Section I and Section II B.)
- ☒ 3. Use a recent generation-based study to officially change our Board-approved existing base year to a new base year. (Please complete Section I and Section II B.)

Section I: Jurisdiction Information and Certification

All respondents must complete this section.

I certify under penalty of perjury that the information in this document is true and correct to the best of my knowledge, and that I am authorized to make this certification on behalf of:

Jurisdiction Name		County	
Sierra Madre		Los Angeles	
Authorized Signature		Title	
		Director of Public Works	
Type/Print Name of Person Signing	Date	Phone	
Bruce Inman	July 26, 1999	(626) 355-7135	
Person Completing This Form (please print or type)	Title	Phone	
Eugene Tseng	Principal Investigator UCLA Extension	(818-889-8628)	
Mailing Address	City	State	ZIP Code
City of Sierra Madre, 232 W. Sierra Madre Blvd.	Sierra Madre	CA	91024

Section II B: Information for New Generation-Based Study for Existing or New Base Year

Respondents who chose option 2 or 3 on the first page must complete this section.

Attach additional sheets if necessary—please reference each response to the appropriate cell number (e.g., B4).

B1. Current Board-approved base-year:

1990

B2. Proposed new generation-based study year:

1998

B3. Is the proposed generation study year representative of average annual jurisdiction disposal and diversion patterns? ☒ **Yes** ☐ **No****B4. Please select the ONE choice below that best explains your diversion data.**

- ☐ All diversion tonnage claimed is from a 100 percent audit (full enumeration) of all available diversion programs.
- ☒ Some diversion data were estimated or extrapolated from representative sampling. (Explain amount and method in detail below.)

Diversion from Residential Sector is from Hauler Data. Part of the Commercial diversion is from hauler weigh ticket data. Other Commercial diversion is from waste reduction and 80 recycling audits. City of Sierra Madre is a small community with only 101 businesses with more than 1 employee. Audits were conducted at 80 businesses for this interim study. Audits and technical assistance will continue as a SRRE program. Details of audits are attached.

B5. In the table below, list the diversion data records that support your claim and are available for Board audit.
Include type of record and location; for example, weigh tickets from transfer station.

Diversion Program	Tons	Type of Record	Location of Data
Residential Curbside Recycling/Greenwaste	3,327.22	Weigh Tickets	Hauler, Waste Management
Commercial/Industrial Recycling (C&D recycling)	919.56	Weigh Tickets	Hauler, Waste Management
Actual Recycling & Source Reduction Diversion	1,707.14	Waste Audits	UCLA Extension
Extrapolated Recycling & Source Reduction Diversion	7,796.53	Waste Audits	UCLA Extension

B6. Please select the ONE choice below that best explains your disposal data and complete the required tables.

- ☒ a. All tons claimed are from the Board's Disposal Reporting System (1995 and after). (No explanation required. Skip to B9.)
- ☐ b. All tons claimed are from a 100 percent audit of hauler and self-haul tonnage (pre-1995). (Please complete B7 and then skip to B9.)
- ☐ c. Some Disposal Reporting System data were corrected. (Please skip to B8.)

B7. If you chose "b" in B6, list the disposal data records that support your claim and are available for Board audit in the table below.
Include type of record and location; for example, weigh tickets from transfer station.

Source of Disposal	Tons	Type of Record	Location of Data

B8. If you chose "c" in B6, list the disposal data records that support your claim and are available for Board audit in the table below. Explain tonnage amount, correction method used, and correct owner of disputed tonnage in detail.

Source of Disposal	Tons	Correction Method Used	Correct Owner

B9. Enter your diversion rates in the table below.

	1997	1998	Other Year: (please specify)
Current calculated diversion rate:	a. %	b. (-11)%	
Proposed diversion rate:	c. %	d. 47%	e. %

B10. If the proposed base-year generation tonnage correction results in an increase in either your 1997 or 1998 waste diversion rate, please explain how the diversion rate is consistent with your diversion implementation efforts.

The negative diversion rate does not accurately reflect the diversion programs. The City currently has a residential curbside recycling program, a greenwaste diversion program, and limited residential construction & demolition (C&D) diversion program. The hauler also operates a commercial recycling service (by subscription), a limited C&D diversion program of clean loads to NuWay inert landfill facility, and an extensive waste reduction and recycling technical assistance program to businesses. Greenwaste from commercial sector is also used for alternative daily cover (ADC).

New Generation Based Diversion Study

City of Sierra Madre**New Base Year Generation Study 1998****Calculation Details**

		1998 Tons
A	Residential Sector Summary	
	Residential Disposal (Franchise Hauler Data)	5,051.34
	Residential Recycling (Franchise Hauler Data)	3,327.22
	AB 2020 Recycling (Department of Conservation Data)	0.00
	LA County HHW Roundup Diversion Tonnage (not counted)	0.00
	Residential Generation Tonnage	8,378.56
	Residential Diversion Tonnage	3,327.22
	Residential Diversion Rate	39.7%
B	Commercial and Industrial Sector Summary	
	Commercial and Industrial Disposal (see attached sheet)	9,166.54
	Commercial and Industrial Recycling C & D Recycling	919.56
	Existing Commercial / Industrial Recycling and Source Reduction	7,796.53
	Commercial and Industrial Generation Tonnage	17,882.63
	Commercial and Industrial Diversion Tonnage	8,716.09
	Commercial and Industrial Diversion Rate	48.7%
C	Diversion Reported by LA County Disposal Reporting System	
	Alternative Daily Cover Tonnage	392.91
	Salvaged/Recycled Tonnage	0.00
	County Landfill ADC / Recycled Diversion Tonnage	392.91
D	Allocation of LA County DRS Reported Diversion to City Sectors	
	Residential Sector Diversion Allocation (%)	35.5%
	Commercial and Industrial Sector Diversion Allocation (%)	64.5%
	Residential Sector Diversion Allocation Tonnage	139.59
	Commercial and Industrial Sector Diversion Allocation Tonnage	253.32
E	Overall 1998 Jurisdiction Summary	
	1998 Disposal Tonnage	14,217.88
	1998 Diversion Tonnage	12,436.22
	1998 Generation Tonnage	26,654.10
	1998 Diversion Rate	46.7%

City of Sierra Madre**New Base Year Generation Study 1998**

A	Residential Sector Summary	1998 Tons
	Residential Disposal Tonnage	5,051.3
	Residential Diversion Tonnage	3,466.8
	Residential Generation Tonnage	8,518.2
	Residential Diversion Rate	40.7%

B	Commercial and Industrial Sector Summary	
	Commercial and Industrial Disposal Tonnage	9,166.5
	Commercial and Industrial Diversion Tonnage	8,969.4
	Commercial and Industrial Generation Tonnage	18,135.9
	Commercial and Industrial Diversion Rate	49.5%

C	Overall 1998 Jurisdiction Summary	
	1998 Disposal Tonnage	14,217.9
	1998 Diversion Tonnage	12,436.2
	1998 Generation Tonnage	26,654.1

D	1998 City of Sierra Madre Diversion Rate	46.7%
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September-98

City of Sierra Madre		
1997 New Base Year Generation Study		
Estimate of Commercial and Industrial Sector Recycling		
Only Applied to Hauler Accounts (NO SELF HAUL)		
Calculation Detail		
	Description	Tonnage
A	Jurisdiction Total Disposal (1998 Disposal Reporting System Tonnage)	14,217.88
B	Residential Disposal Tonnage, Exclusive Franchise Hauler	5,051.34
C	Commercial and Industrial Disposal by Franchise Hauler	4,758.27
D	Commercial and Industrial Disposal Tonnage (Self Haul)	4,408.27
E	Diversion Rate from AUDITS OF HAULER ACCOUNTS (Diversion Study attached)	62.1%
F	Commercial and Industrial Generation Tonnage (HAULER ACCOUNTS) (C/(100% - E))	12,554.80
G	Commercial and Industrial Diversion Tonnage (HAULER ACCOUNTS) (F - C)	7,796.53
Calculation Summary Without ADC and Landfill Salvage Allocation		
G	Commercial and Industrial Disposal Tonnage	9,166.54
H	Commercial and Industrial Diversion Tonnage (without self haul diversion)	7,796.53
J	Commercial and Industrial Generation Tonnage	16,963.07

Greenwaste Recycling from Hauler

**Total Hauler Green Waste Recycling
Month**

January	175.31
February	131.54
March	232.22
April	157.32
May	214.76
June	257.90
July	109.15
August	243.00
September	243.00
October	171.74
November	160.35
December	263.00
Total	2,359.29

Total Greenwaste Reported by DRS 2,752.20

Green Waste Recycling from Self Haul 392.91
(Not Hauler Recycling)

Waste Reduction and Recycling Summary

City of Sierra Madre

1999 Waste Reduction and Recycling Audits

Number	Name of Company	Type of Business	Total Exist. Recy. Diversion (lb/yr)	Additional Poten. Recy. (lb/yr)	Total Exist. S. Red. Diversion (lb/yr)	Add. Poten. S. Reduction (lb/yr)	Disposal tons/yr (calculated)
1		Accounting	0.00	1,053.00	162.00	0.00	4.49
2		Electronic Cable Dealer	24.96	5,285.20	14,347.00	0.00	1.79
4		Business Equipment	0.00	3,809.16	3,206.20	200.00	1.79
5		Private School	5,714.50	2,514.02	12,454.16	14,560.00	53.82
6		Hardware and Misc	76.96	3,707.94	3,487.86	1,040.00	5.98
7		Restaurant	12,802.72	0.00	2,917.66	23,576.00	35.88
8		Dental Lab	43.30	79.50	277.20	2.00	1.79
9		Pharmacy	794.30	3,158.00	2,924.50	0.00	8.97
10		Church/School	269.28	1,973.62	523.90	2,106.00	26.91
11		Liquor Store	27,300.00	0.00	3,068.00	0.00	8.97
12		Gifts	0.00	9,319.43	3,158.10	8.00	9.72
13		Restaurant	10,660.00	5,376.70	1,300.00	128.00	8.97
14		Jewelry & Antiques	76.40	53.50	52.00	0.00	0.37
15		Blind School/Residence	4,200.00	7,881.80	7,485.28	0.00	17.94
16		Restaurant	21,325.60	2,269.30	1,831.84	3,120.00	53.82
17		Gallery/School	10.68	536.70	1,167.60	0.00	5.98
18		Tubing	30.40	6.30	150.00	0.00	0.75
19		Restaurant	0.00	2,888.60	400.00	0.00	17.94
20		Floorist	12.48	0.00	2,689.44	7,800.00	5.98
21		Furniture Making	0.00	2,497.70	5.00	0.00	2.24
22		Plumbing/Htg. AC	0.00	5,000.00	3,026.00	12.00	9.72
23		Private School	120.00	777.80	12,135.80	0.00	14.41
24		Art Restoration/Framing	0.00	1,703.00	0.00	0.00	8.97
25		Facial Salon	0.00	486.72	0.00	0.00	2.99
26		Hair Salon	0.00	2,349.40	117.60	2,016.00	4.49
27		Liquor Store	15,600.00	5,892.06	6,514.65	0.00	8.97
28		Market	184,186.40	0.00	26,605.90	8.00	53.82
29		Asbestos/Lead Testing	3,256.00	0.00	749.80	41.60	8.97
30		Restaurant	3,200.00	10,594.32	370.95	356.00	17.94
31		Deli/Sweets	284.80	1,344.90	554.40	640.00	2.99
32		Dress Making	95.52	0.00	129.60	0.00	4.49
33		Floral & Keepsakes	558.60	558.60	147.00	104.00	1.79
34		Gifts	0.00	5,052.00	714.32	0.00	8.97
35		Welding	540.00	156.00	5.00	0.00	1.00
36		Travel Agency	26.52	1,560.00	230.20	0.00	1.35
37		Market	0.00	0.00	0.00	0.00	6.73
38		Religious	10,133.90	1,130.00	7,104.00	18,200.00	20.93
39		Machine Shop	10.68	1,399.70	863.40	0.00	1.79
40		Electric Bicycles	370.80	21.00	91.40	0.00	1.00
41		Gas Station	26.00	2,621.00	3,696.25	0.00	8.97
42		Service Center	20.80	1,644.00	631.60	0.00	8.97
43		Newspaper Branch Office	0.00	159.64	41.08	0.00	1.50
44		Restaurant	35,686.00	4,196.48	8,389.00	10,408.00	26.91
45		Dry Cleaner	1,007.40	180.00	798.00	0.00	1.50
46		Printers	48.00	301.50	538.00	0.00	0.90
47		Real Estate	3,380.00	0.00	188.40	0.00	1.50
48		Upholstery Shop	260.00	2,760.00	150.33	0.00	4.49
49		Magazine Publisher	208.00	3,568.80	1,666.00	304.00	17.94
50		Financial Institution	39.00	392.00	201.10	0.00	8.97
51		Non-profit	343.10	243.12	506.46	0.00	11.21
52		Glass Shop	0.00	32,104.80	0.00	24.00	8.97
53		Fitness Club	0.00	52.00	84.00	0.00	8.97
54		Juice Bar	369.60	990.00	320.00	0.00	10.47
55		Beer/Restaurant	1,258.40	5,733.75	1,344.40	0.00	1.62
56		Chamber of Commerce	540.00	67.60	34.40	2,600.00	0.75
57		City Hall	302,049.66	0.00	867.60	52.00	89.70
58		Church/Childcare	12,584.00	1,430.00	29,340.00	9,140.00	46.35
59		Public School	480.00	9,852.70	484.60	323,472.70	89.70
60		Auto Service	6.24	1,315.60	1,088.65	0.00	2.99
61		Newspaper	2,781.12	2,207.05	41.00	0.00	0.75
62		News Stand	9,100.00	572.00	0.00	0.00	5.98
63		Newspaper	2,482.80	0.00	6,576.10	0.00	17.94
64		Public Library	12,584.00	2,483.00	187.20	0.00	4.49
65		Storage, Mail Boxes	728.00	90.00	38.64	2,600.00	1.50
66		Nursing Home	2,259.20	4,397.00	3,061.20	2,600.00	62.79
67		Coffee Shop	0.00	22,576.32	5,386.40	16.00	17.94
68		Warehousing	10,400.00	0.00	18,000.00	0.00	1.50
69		Business Mgmt	0.00	1,009.08	158.20	14.56	1.50
70		Architect	0.00	162.12	58.00	5.20	5.98
71		Meat Market	46,800.00	5,720.00	6,240.00	0.00	17.94
72		Restaurant	1,756.00	1,758.90	4,282.85	3,120.00	8.97
73		Gas Station	260.00	244.80	260.00	0.00	5.98
74		Post Office	286.00	145,999.90	2,471,626.00	10,220.00	35.88
75		Auto Repair	0.00	674.44	2,310.00	0.00	2.99
76		Real Estate Agent	0.00	0.00	0.00	0.00	8.97
77		Takeout Restaurant	0.00	9,601.80	2,600.00	0.00	8.97
78		Jam Mfg	25.00	38,612.40	15,234.00	5,388.00	10.47
79		Financial Institution	741.00	1,700.40	47.20	0.00	8.97
80		Real Estate Agent	0.00	436.60	0.00	144.00	3.59
81		Machine Shop	50.00	0.00	0.00	1.30	2.24
Total Tons Per Year			375.14	198.15	1,353.72	222.01	1,043.07
Restricted Materials Excluded			4.23		17.50		
Tonnage (Restricted Materials Removed)			370.92		1,336.23		
Summary of Survey Data Reported by Sierra Madre Businesses							
Annual Tons Disposed			1,043.07	37.93%			
Annual Tons Diverted by Source Reduction			1,336.23	48.59%			
Annual Tons Diverted by Recycling			370.92	13.49%			
Annual Tons Generated			2,750.21	100.00%			
Total Annual Tons Diverted			1,707.14				
Estimated Diversion Rate for Audited Businesses			62.1%				

City of Sierra Madre

Waste Reduction and Recycling Audit Report

Introduction

Waste reduction and recycling audits were conducted in the commercial sector of the City of Sierra Madre in order to evaluate the potential commercial sector diversion programs that can be implemented by Waste Management and/or by the City of Sierra Madre to meet the Year 2000 50% diversion goal.

A student research intern and a recycling specialist was utilized for the waste reduction and recycling audits. The auditors were managed by an environmental non-profit organization (EcoTelesis). The commercial sector sampling plan and technical methodology were developed in 1998 and the audits were conducted in June 1999.

Each business that was audited was given (if requested) printed literature regarding waste reduction and recycling practices specific for each type of business. The literature was provided by the California Integrated Waste Management Board (CIWMB), California Environmental Protection Agency. Approximately 80 businesses were audited during 1999 (as of July 1999).

The City provided a business license database that gave information about the number of employees at the businesses in the City of Sierra Madre. Business owners and managers were individually contacted for an audit appointment.

The survey methodology utilized in the study was based on CIWMB and US EPA forms. The quantification methodology for estimating source reduction diversion quantities is based upon a US EPA document titled "Business Waste Prevention Quantification Methodologies, Business Users' Guide and Technical Appendices." The training program for the auditors was based on the CIWMB training program document titled "Establishing a Waste Reduction Program at Work."

The diversion quantification methodology utilized in this project was also used in the development of a new base year generation study for the City of Carson. The CIWMB Board Members approved of the methodology by a 4-0 vote on June 23, 1999.

Summary of Results

City of Sierra Madre – Waste Management Route Summary of Waste Reduction and Recycling Audits		
	Year 1999 Annual Tons	Percent of Total Generation
Annual Disposal	1,043.07	37.93%
Annual Source Reduction Diversion	1,336.23	48.59 %
Annual Recycling Diversion	370.92	13.49%
Annual Generation	2,750.21	100.0 %
Diversion Rate	1707.14	62.1 %

The 62.1 % diversion rate does not include diversion of AB 2494 "restricted" materials and hazardous wastes (e.g., oil, etc.). This diversion rate represents the diversion rate of the commercial and industrial sector businesses serviced by Waste Management.

The waste reduction and recycling auditors assessed additional recycling and source reduction that could reasonably be implemented by the businesses. From the visited businesses, the auditors found that another 198.15 tons of materials could be diverted from the waste stream by recycling and that another 222.01 tons of materials could be diverted by the implementation of source reduction activities.

**Revised 1995, 1996, and 1997
CIWMB Adjustment Method Diversion Calculations**